

## X. BARRICADING AND SIGNING ILLUSTRATIONS

The illustrations contained herein are meant to indicate typical situations and utilization of the traffic control devices described in the text. The use of certain traffic control devices for specific situations is not intended to exclude the use of those traffic control devices for other situations. At all times, however, practices prescribed in the text shall be adhered to. The following is a list of procedures for placement of traffic control devices:

1. Advance warning signs may be placed on:
  - a. Portable sign supports
  - b. Posts

2. For night operations:

- a. All channelizing devices shall be reflectorized. Cones shall not be utilized alone.
- b. Through the taper section install arrow signs (T-19) spaced at 3S. (See Table X-1)
- c. All signs shall be reflectorized, except those controlling parking and pedestrians.
- d. Install a flashing yellow warning light on each high level warning device.
- e. Horizontal barricade or vertical panels shall have a flashing or steady burning light attached.

3. General Notes:

- a. Where possible, place a vehicle between the work area and the traffic flow.
- b. Signs shall not be installed on Type I or Type II barricades.
- c. The predominant color for channelizing devices, shall be orange.
- d. A high level warning device shall be required for all temporary work in the roadway.

4. Set-up (in order of occurrence):

- a. Temporarily place a high level warning device at the side of the road.
- b. Place advance warning signs.
- c. Place channelizing devices for traffic diversions (moving in direction of traffic.)
- d. Adjust placement of high level warning device.
- e. Protect the work area.
- f. Place spoil or equipment between traffic flow and work area when practical.

5. Pick-up

- a) Reverse set-up procedure indicated in #4 above.

TABLE X-1

## SIGN AND CHANNELIZING DEVICE SPACING

(Refer to typical layouts)

CLASS OF ROAD	WARNING SIGN SPACING IN FEET **			TAPER LENGTH (L) IN FEET		CHANNELIZING DEVICE SPACING IN FEET				WARNING SIGN MIN. SIZE IN INCHES
						VEH. BARRICADES & DRUMS		OTHERxx		
	A	B	C	Lane Width		Taper (S)	Tangent	Taper (S)	Tangent	
				10'	12'					
I	*			75	90	30	30	15	30	30 X 30
II	150	150	75	150	200	40	50	20	50	30 X 30
III	300	300	150	400	500	60	80	30	80	48 X 48

## ROAD CLASS DEFINITIONS

CLASS I - Central Business District Streets

CLASS II - Arterial Streets

CLASS III - All partially or fully controlled access arterial streets

\* Advance warning signs if feasible

xx Vertical Barricades, cones, tubular guideposts

\*\* "A", "B" and "C" dimensions are shown on Figure 2-15

## SYMBOLS AND LEGENDS



WORK AREA



TRAFFIC SIGNS (ARROW DIRECTION INDICATES  
SIGN ORIENTATION)



CHANNELIZING DEVICES (TRAFFIC CONES, DELINEATOR  
POSTS, VERTICAL PANELS, ETC.)



HIGH LEVEL WARNING DEVICE



FLAGGER (COUNTERMANDING TRAFFIC SIGNALS  
REQUIRES OFF-DUTY LAW ENFORCE-  
MENT OFFICER)



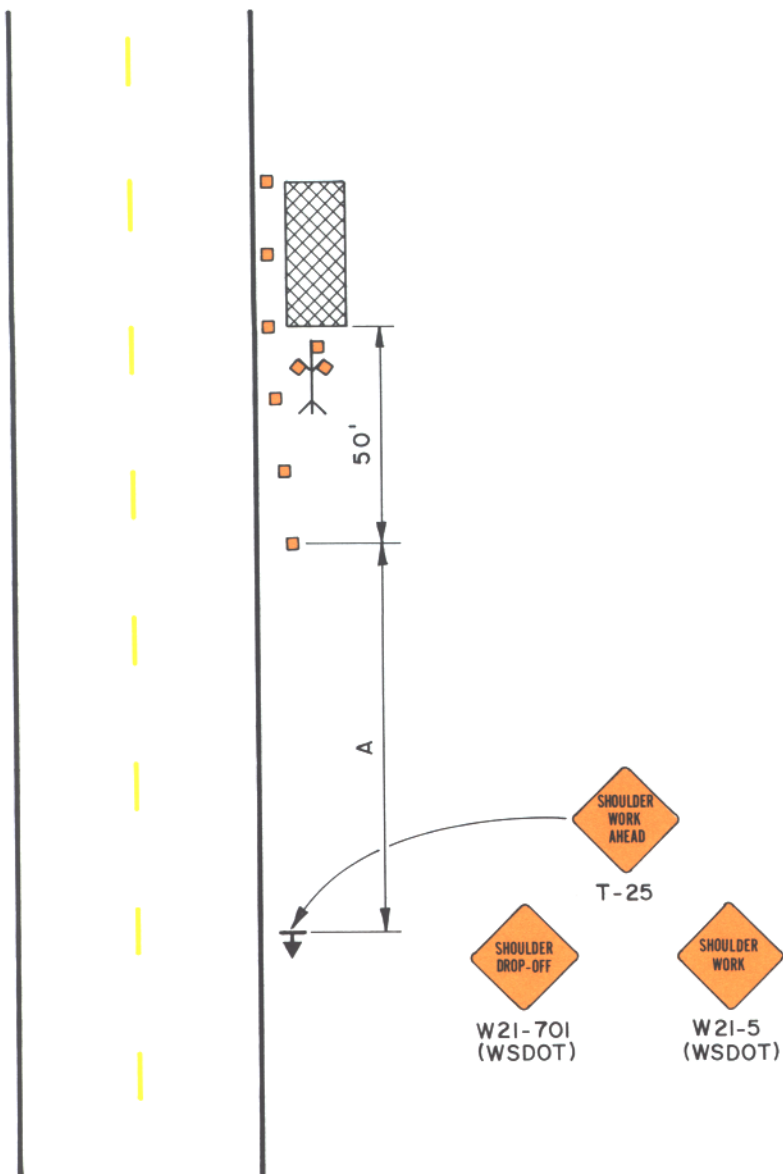
SURVEY RODMAN



SURVEY TRANSIT

### NOTES :

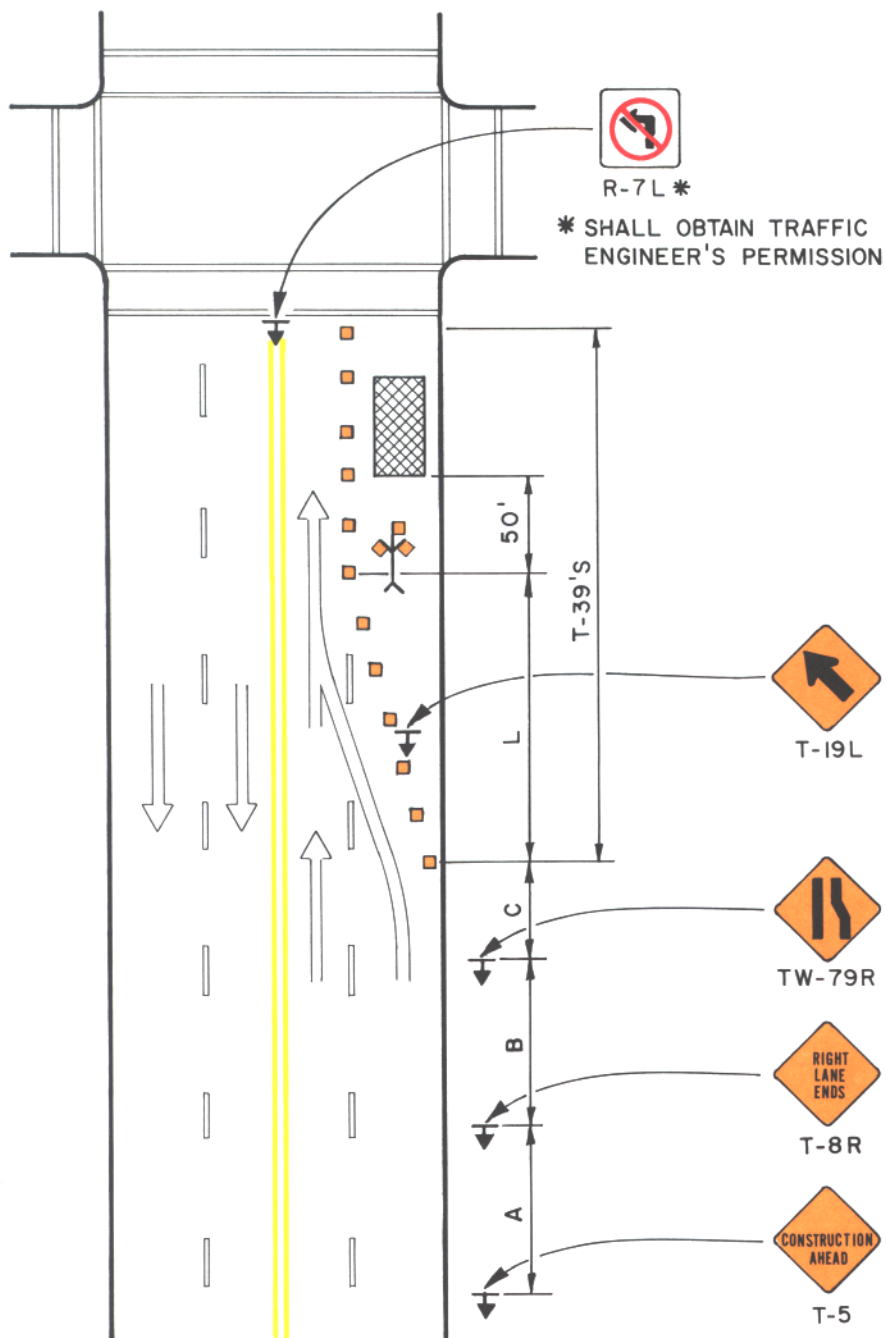
1. FOR NIGHT TIME USAGE, REFER TO "WARNING LIGHT APPLI-  
CATIONS DURING NIGHT TIME OPERATIONS", FIGURE X-16
2. ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES  
(SEQUENTIAL ARROWS, BARRICADES, STEEL PLATES)  
MAY BE REQUIRED.
3. CONTACT TRAFFIC SIGNAL OPERATIONS (684-5087)  
BEFORE CLOSURE OF ANY TRAFFIC LANES CONTROLLED  
BY SIGNAL LOOP DETECTORS.



NOTE: REFER TO TABLE X-1 FOR TYPICAL  
DIMENSIONS OF A

## SHOULDER WORK

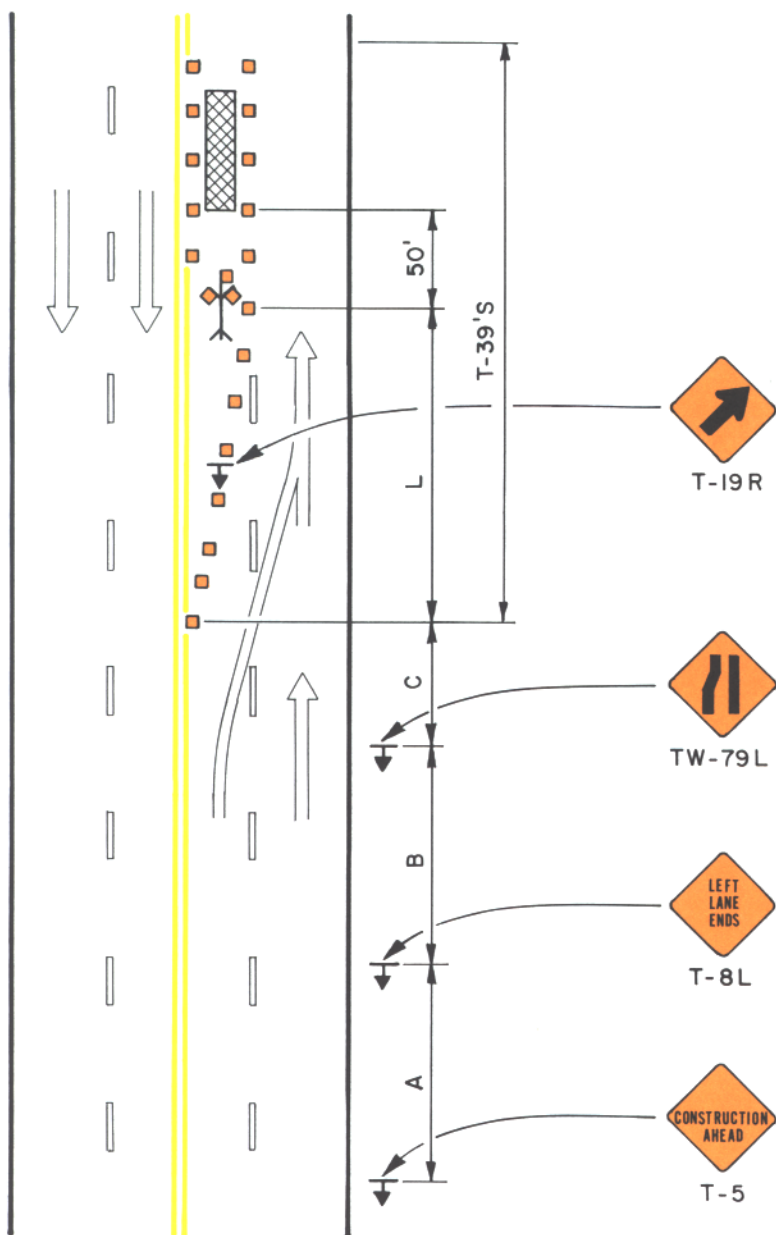
**FIGURE X-3**



NOTE: REFER TO TABLE X-1 FOR TYPICAL DIMENSIONS OF A, B, C, & L

## RIGHT LANE CLOSURE

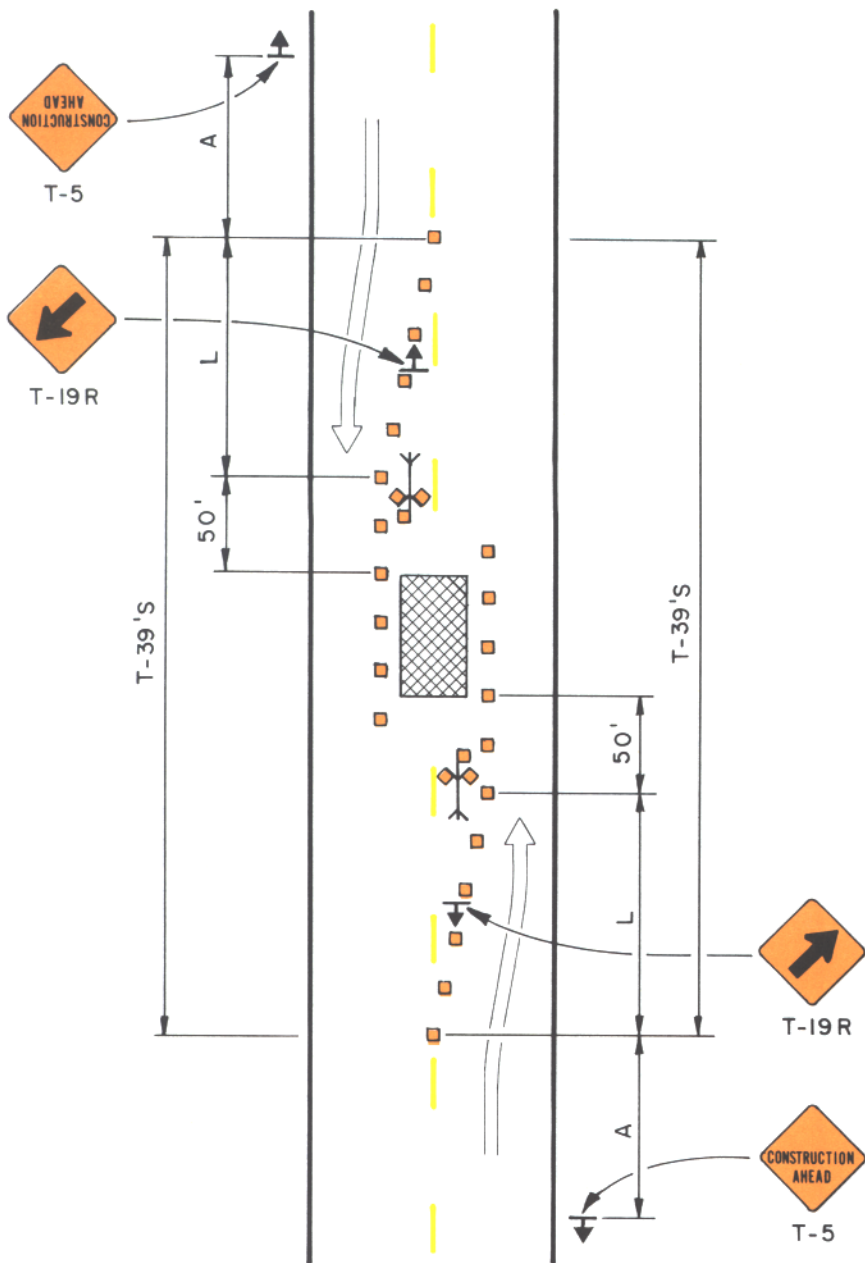
### 4-LANE, 2-WAY STREET



NOTE: REFER TO TABLE X-1 FOR TYPICAL DIMENSIONS OF A, B, C, & L

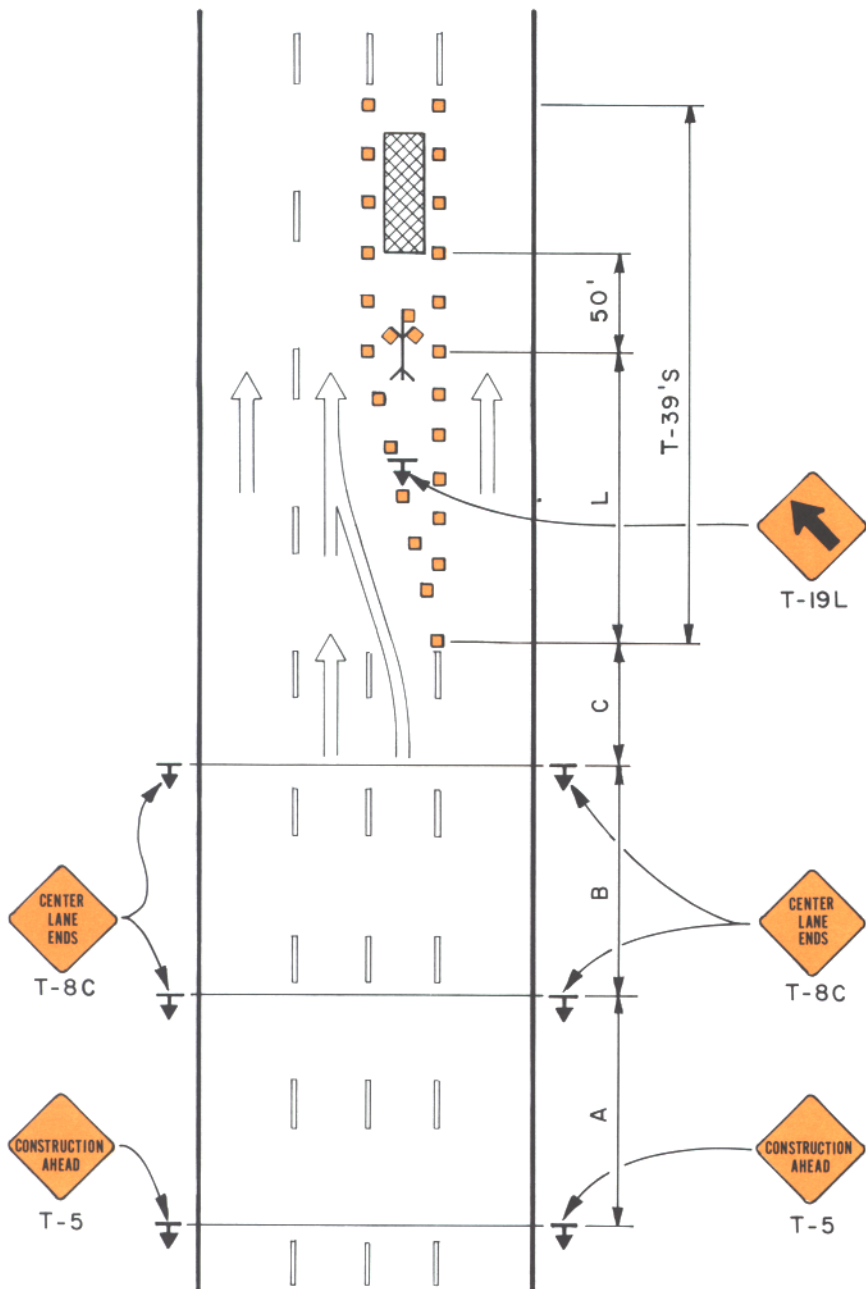
# LEFT LANE CLOSURE 4-LANE, 2-WAY STREET





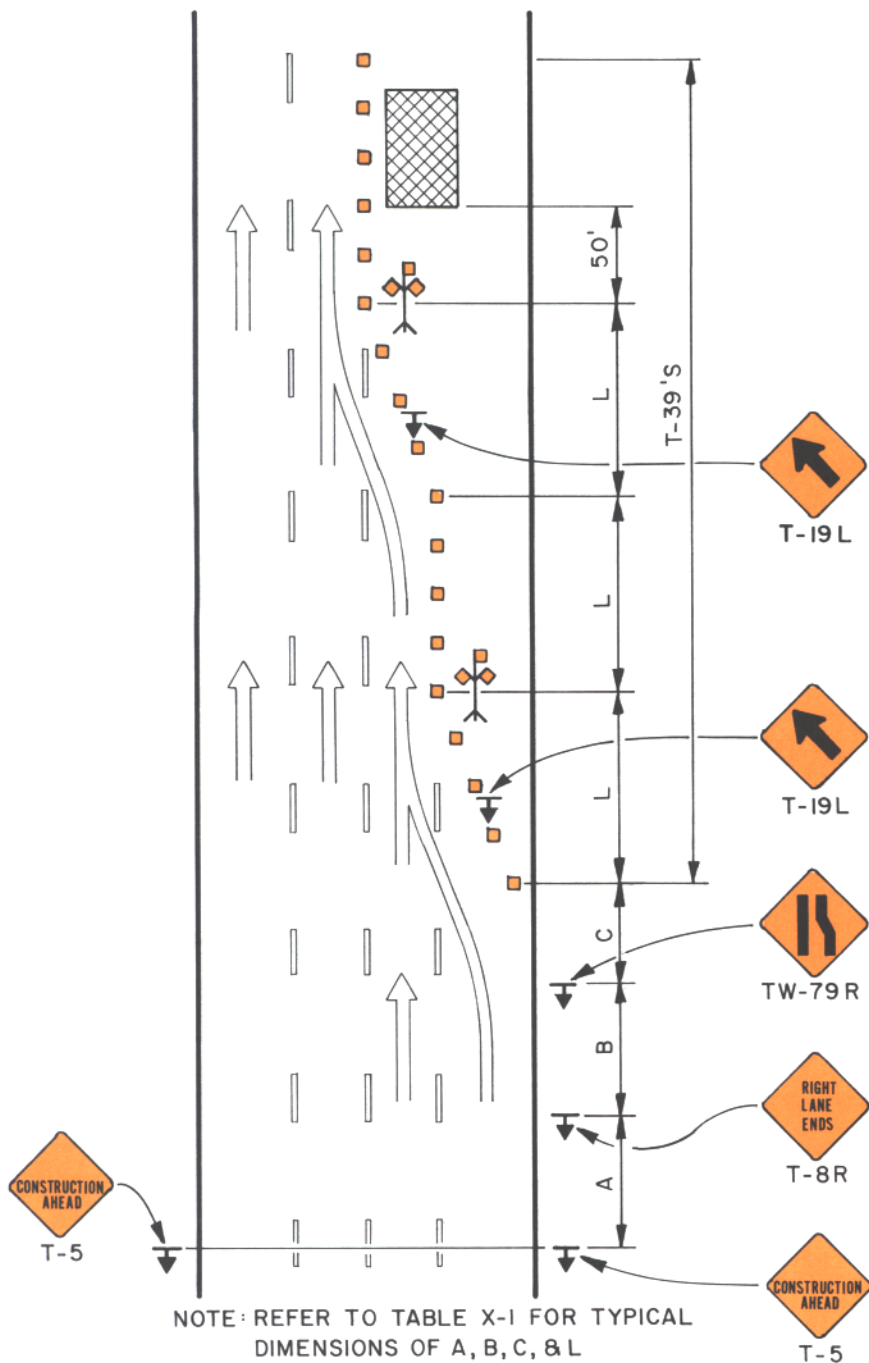
NOTE: REFER TO TABLE X-1 FOR TYPICAL DIMENSIONS OF A & L

## WORK AREA IN CENTER OF STREET

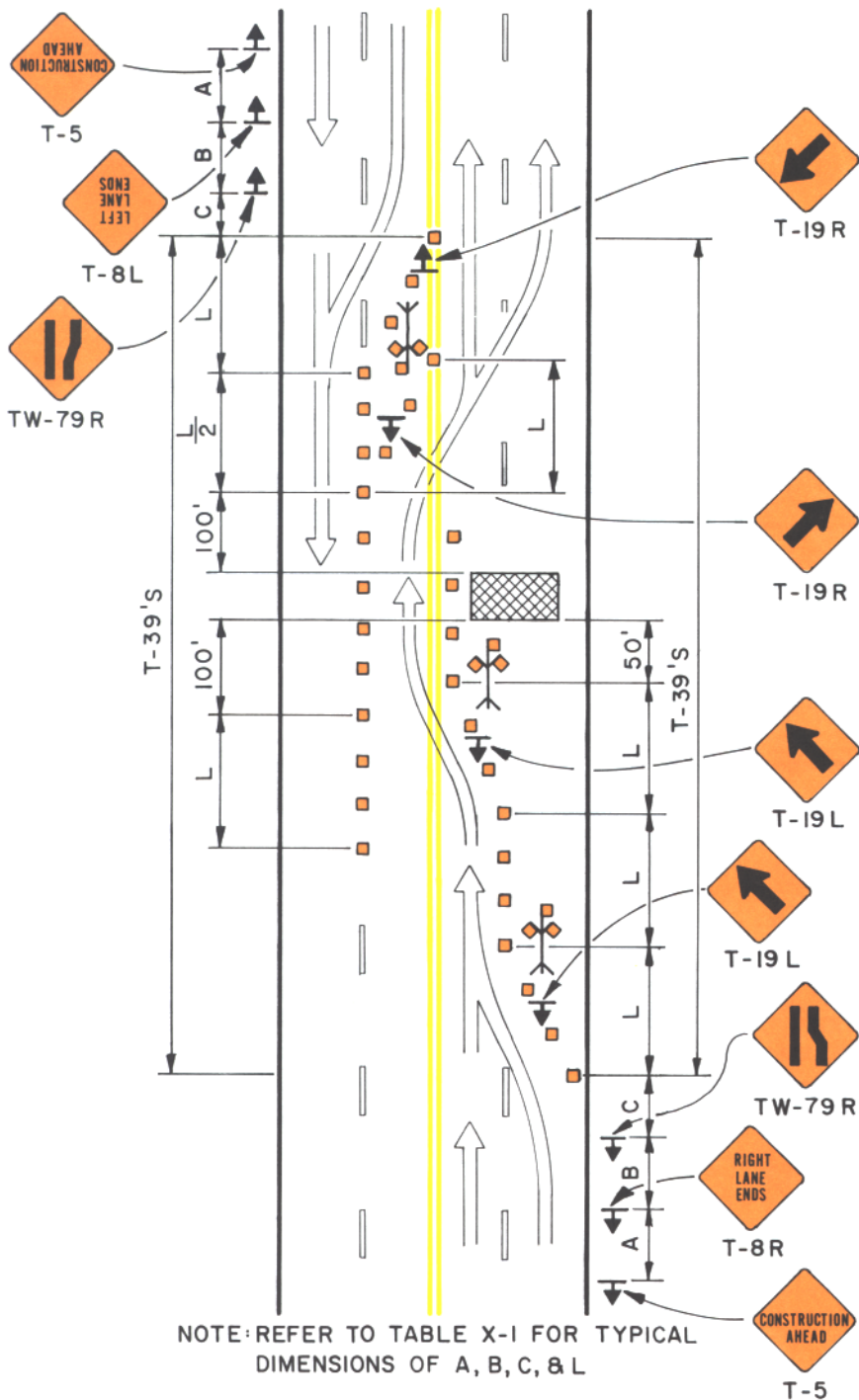


NOTE: REFER TO TABLE X-1 FOR TYPICAL  
DIMENSIONS OF A, B, C, & L

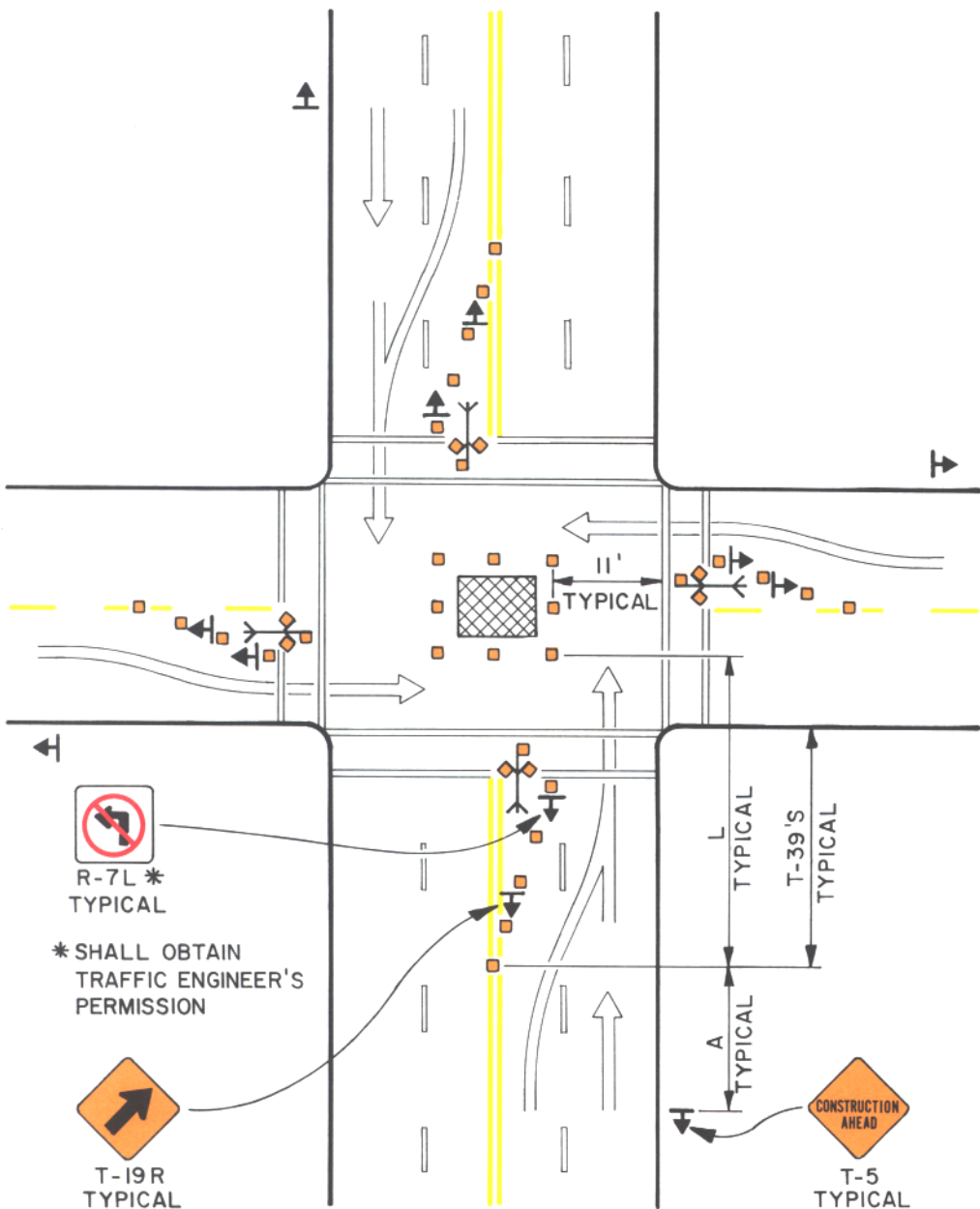
### CENTER LANE CLOSURE ONE-WAY STREET



**MULTIPLE LANE CLOSURE  
ONE-WAY STREET**

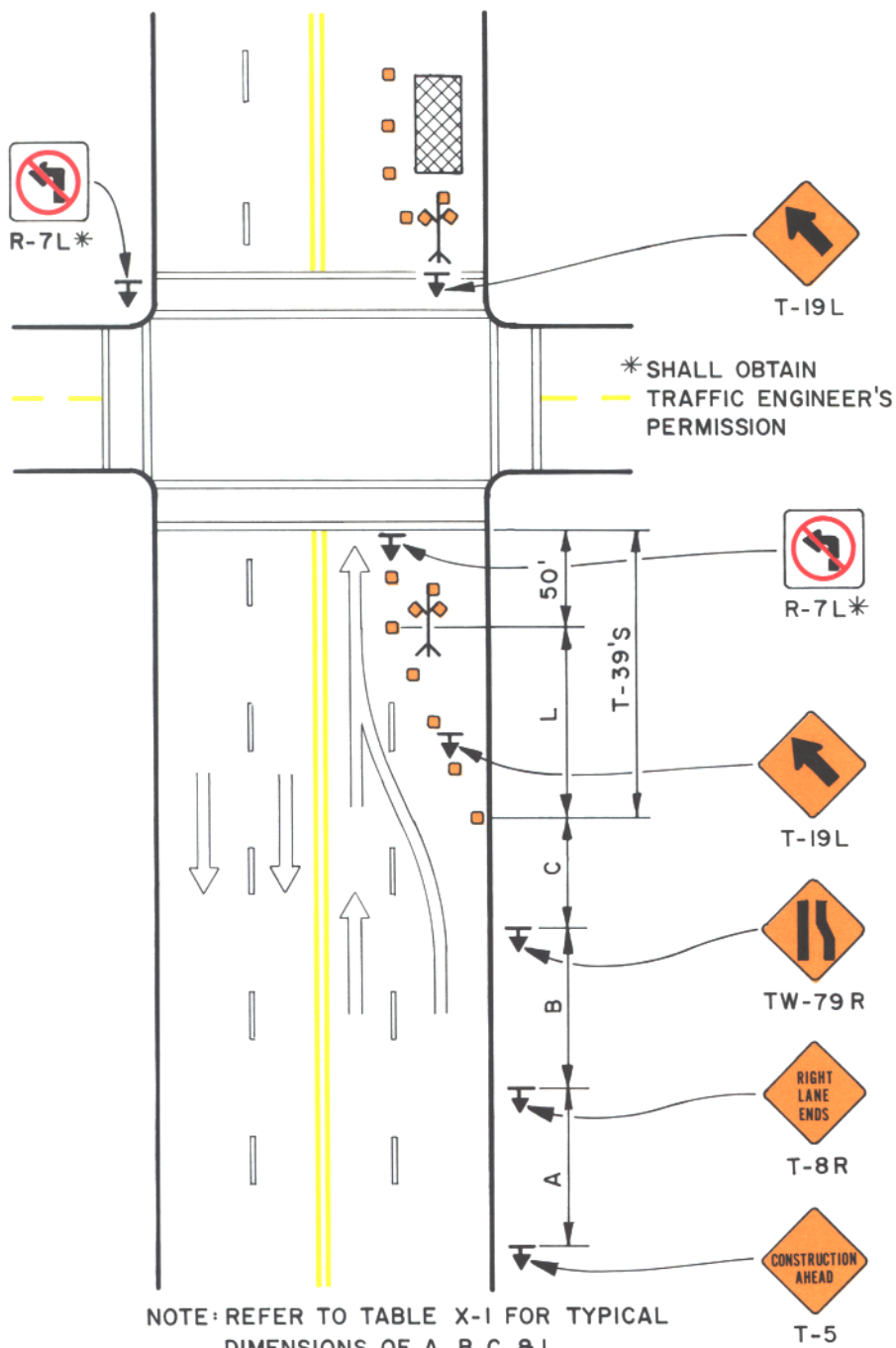


# HALF ROADWAY CLOSURE TRAFFIC OVER CENTER LINE

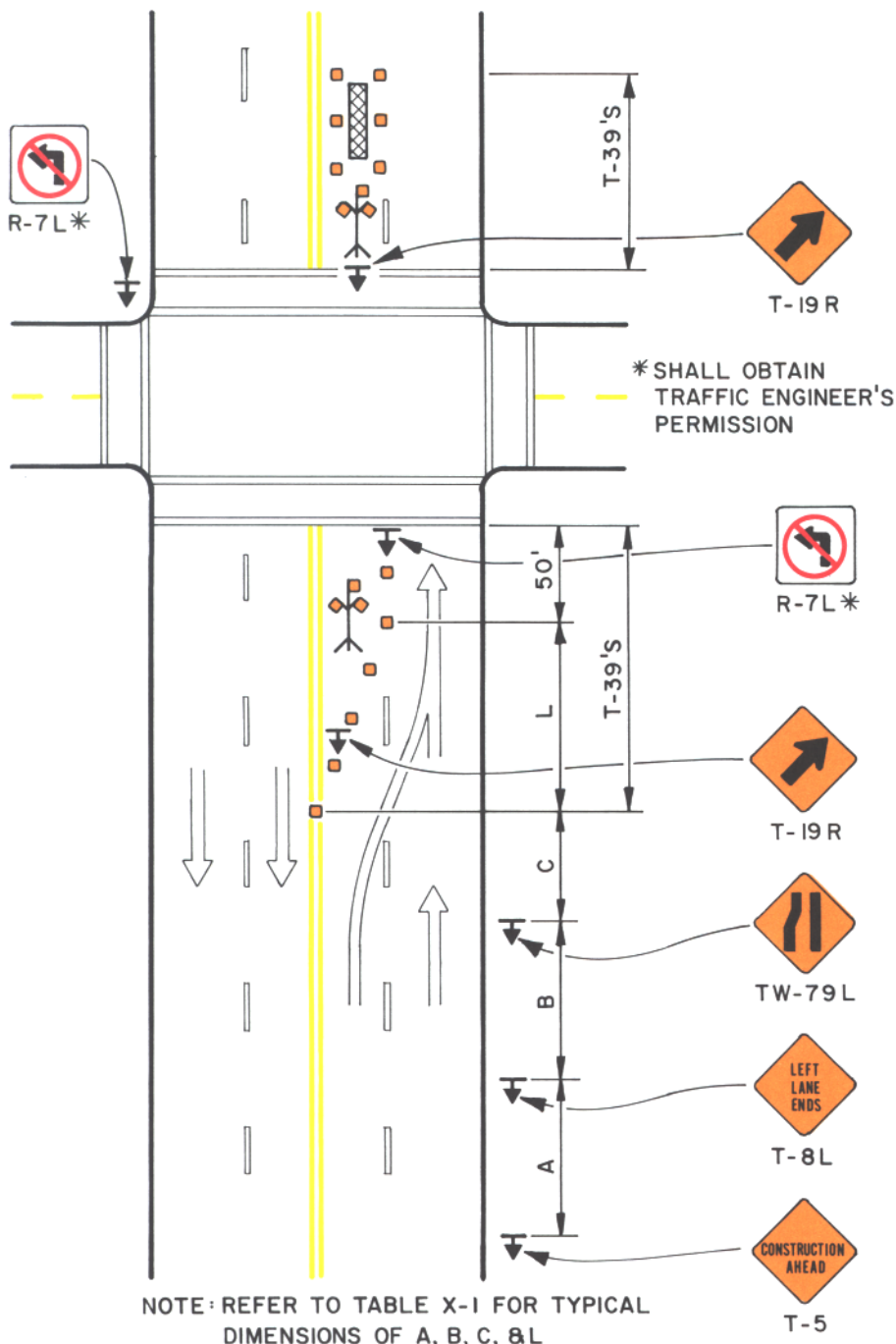


NOTE: REFER TO TABLE X-1 FOR TYPICAL  
DIMENSIONS OF A & L

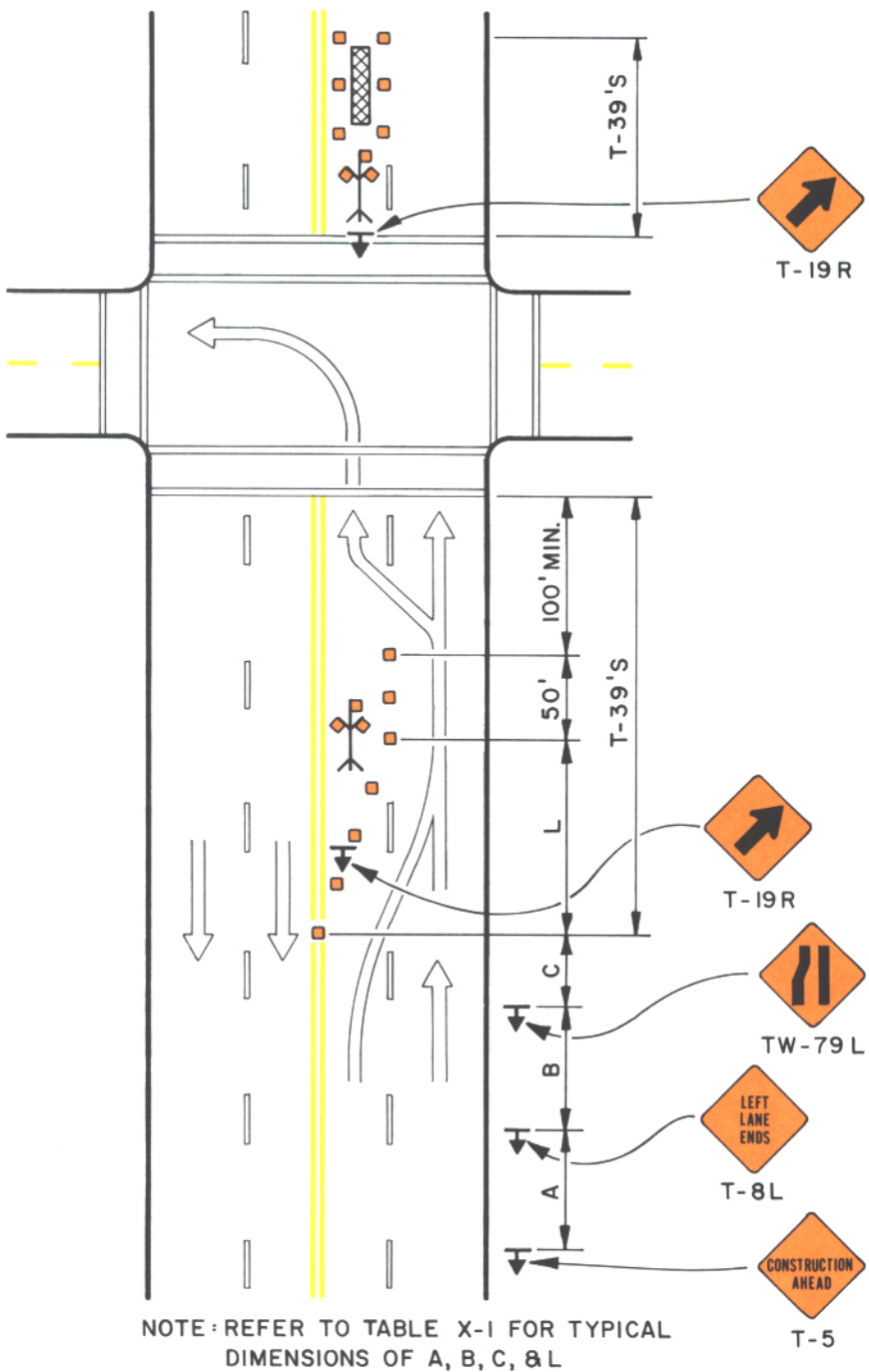
## WORK AREA IN CENTER OF INTERSECTION



## WORK AREA BEYOND INTERSECTION CURB LANE

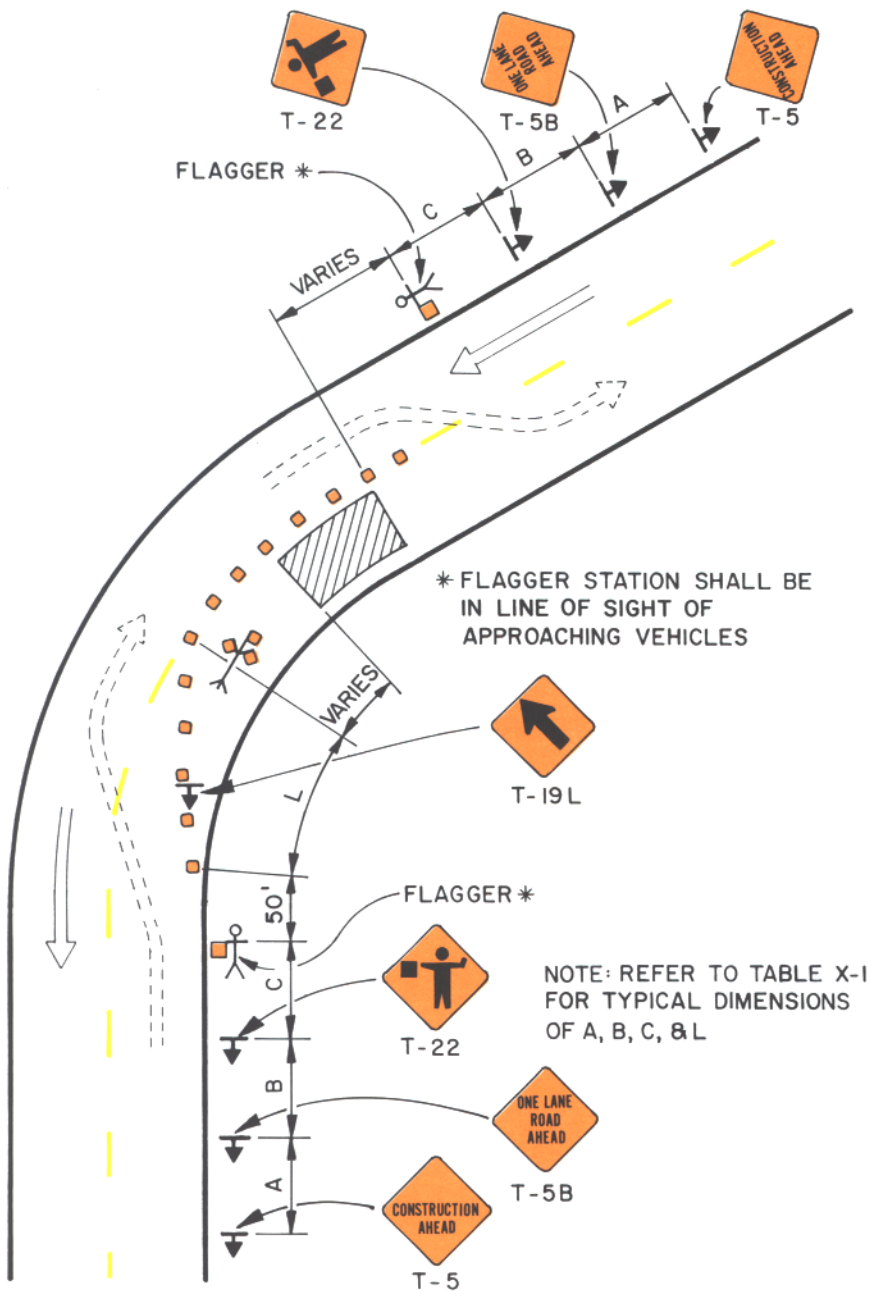


# WORK AREA BEYOND INTERSECTION CENTER LANE

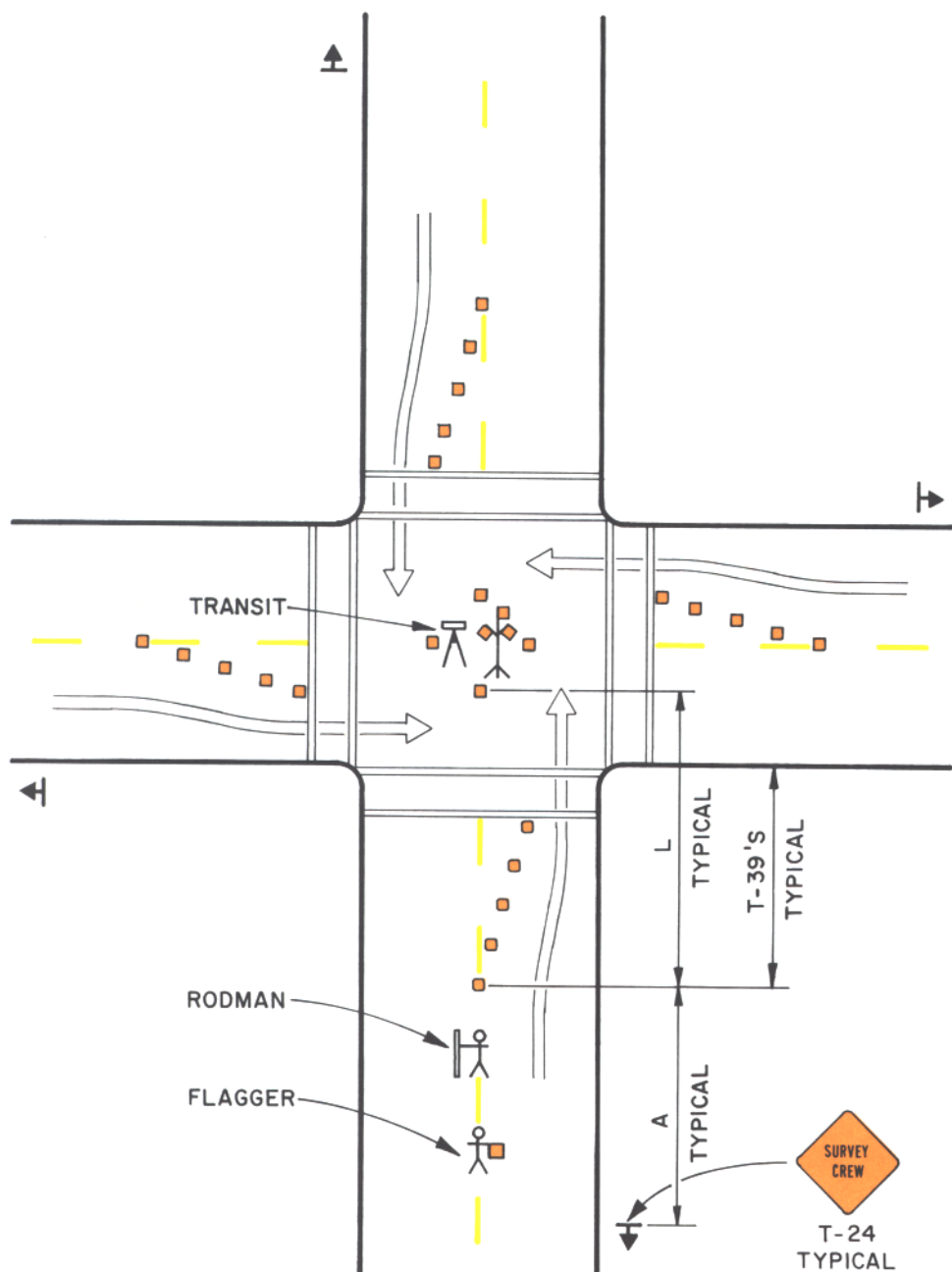


**WORK AREA BEYOND INTERSECTION  
CENTER LANE (LEFT TURN PROVIDED)**



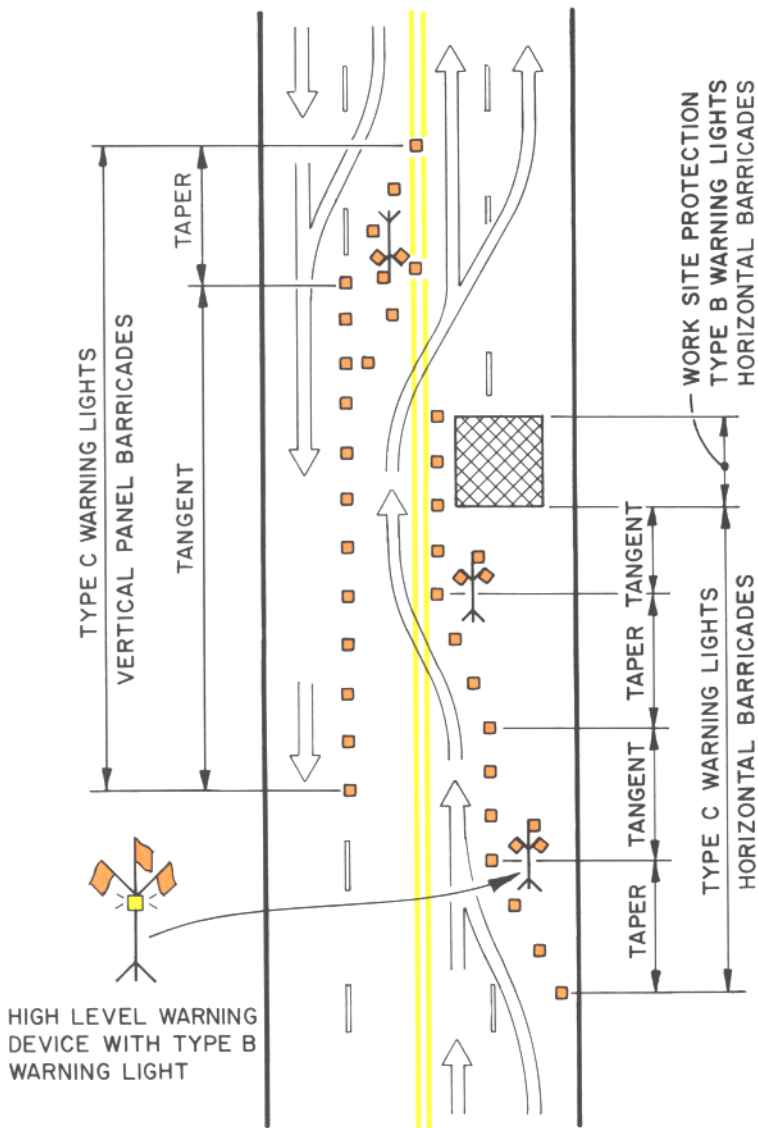


ONE LANE , TWO-WAY OPERATION  
HORIZONTAL CURVE (ILLUSTRATED)  
VERTICAL CURVE (SIMILAR)



NOTE: REFER TO TABLE X-1 FOR TYPICAL  
DIMENSIONS OF A & L

## SURVEY CREW ARTERIAL STREET



### WARNING LIGHT TYPES

TYPE A - LOW LEVEL FLASHING

TYPE B - HIGH INTENSITY FLASHING

TYPE C - LOW LEVEL STEADY BURNING

### WARNING LIGHT APPLICATIONS DURING NIGHT TIME OPERATIONS